

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1336323

Luminaire Tested: P3A05R159030D2WDE010 E3CA301MW

Issue Date: 2/13/2026

Test Information

Test Method: LM-79-2019
Report Number: P1336323
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 2/13/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3A05R159030D2WDE010 E3CA301MW
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI , E3CA301MW TRIM
Light Source: -
Ballast/Driver: -

Summary

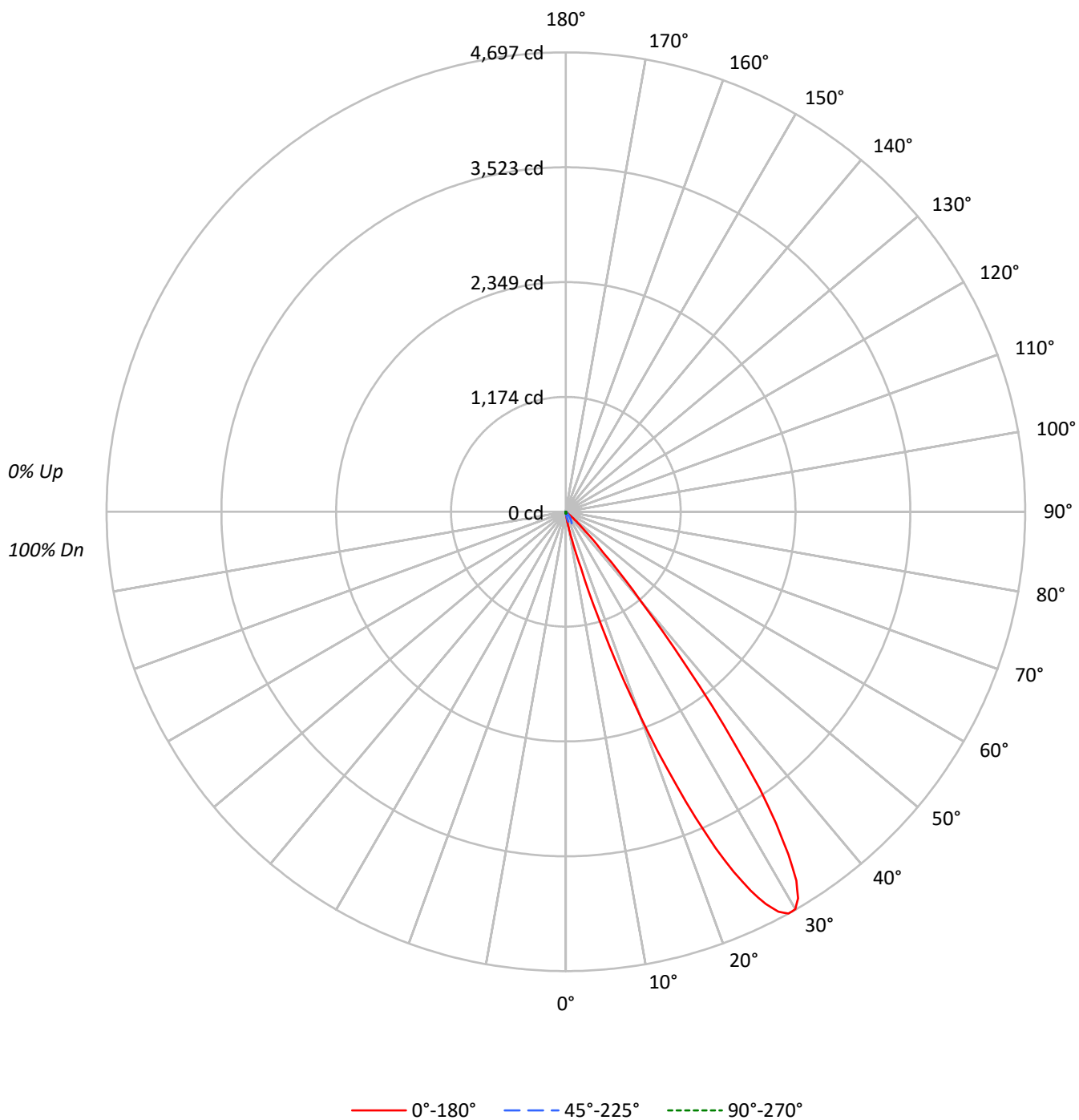
Lumens per Lamp: N/A
Luminaire Lumens: 513.0 lumens
Efficiency: N/A
Efficacy: 46.2 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Circular (Dia: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70
5	87	77	70	65	85	76	70	65	74	69	64	72	67	64	71	66	63
6	81	71	64	59	80	70	63	58	68	62	58	67	61	57	65	61	57
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	42
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3728	3728	3728	3728	3728
5°	8012	5921	3522	1871	1541
10°	35559	11222	2783	779	557
15°	134462	25948	1930	341	227
20°	517135	36567	1167	117	117
25°	983404	34284	605	0	0
30°	1187980	27675	253	0	0
35°	926537	18846	134	0	0
40°	338119	9275	143	0	143
45°	86831	2791	155	0	310
50°	14635	341	171	171	512
55°	1912	0	382	573	956
60°	219	219	658	877	1316
65°	259	259	1038	1297	1557
70°	321	321	1282	1282	1603
75°	424	424	1694	1271	1694
80°	0	631	1894	1263	1894
85°	0	1258	3774	1258	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 86831 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.3	0.5
10°-20°	39.3	7.7
20°-30°	218.0	42.5
30°-40°	210.6	41.1
40°-50°	36.6	7.1
50°-60°	2.6	0.5
60°-70°	1.6	0.3
70°-80°	1.3	0.2
80°-90°	0.6	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	259.7	50.6
0°-40°	470.3	91.7
0°-60°	509.6	99.3
0°-90°	513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	513.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	17	17	17	17	17	
5°	36	27	16	8	7	7
15°	592	114	8	2	1	264
25°	4064	142	2	0	0	1817
35°	3461	70	0	0	0	1991
45°	280	9	0	0	1	301
55°	5	0	1	2	2	10
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
2.5°	25.0	24.0	24.5	24.5	24.5	24.5	24.5	23.5	23.5	24.0	21.5
5°	36.4	36.4	35.9	36.4	36.4	35.9	34.9	34.4	34.4	33.4	26.9
7.5°	72.9	71.9	71.9	70.9	65.9	64.4	63.4	60.9	56.4	55.4	34.9
10°	159.7	160.2	156.7	152.2	151.7	144.2	141.7	137.2	128.7	120.3	50.4
12.5°	289.9	283.4	275.0	275.5	261.0	256.0	244.5	232.0	219.1	205.6	82.8
15°	592.3	573.9	584.9	557.9	527.5	493.0	458.1	414.2	376.8	336.8	114.3
17.5°	1247.6	1265.5	1235.1	1119.8	1048.9	965.6	848.3	735.1	638.2	560.4	139.7
20°	2216.1	2242.6	2139.3	2039.0	1866.8	1679.2	1483.6	1262.0	1049.9	866.3	156.7
21°	2620.9	2604.9	2562.5	2401.8	2203.2	1985.6	1746.1	1501.6	1244.6	1006.0	158.2
22°	3012.1	3019.6	2920.8	2752.6	2546.0	2305.0	2012.5	1710.6	1433.7	1119.8	155.7
23°	3401.8	3425.8	3295.0	3137.3	2877.3	2605.4	2267.0	1941.2	1598.9	1250.0	150.7
24°	3762.6	3746.1	3657.8	3459.2	3181.3	2862.9	2511.6	2116.3	1734.6	1361.3	146.7
25°	4064.5	4062.5	3923.8	3730.7	3412.8	3060.0	2672.8	2259.6	1850.9	1436.7	141.7
26°	4311.5	4271.1	4161.8	3926.3	3612.4	3240.1	2805.0	2363.9	1916.2	1474.6	136.7
27°	4502.2	4473.2	4326.5	4081.5	3753.6	3341.9	2889.8	2415.8	1946.2	1487.1	130.2
28°	4630.4	4599.0	4442.8	4190.3	3831.5	3405.8	2934.7	2437.7	1946.2	1475.1	124.3
29°	4696.8	4653.9	4498.2	4227.7	3849.4	3413.3	2923.8	2416.3	1915.7	1438.2	117.3
30°	4691.8	4638.4	4475.2	4193.8	3796.0	3351.9	2862.4	2338.9	1846.9	1383.3	109.3
31°	4610.9	4551.1	4368.9	4079.0	3685.8	3236.1	2746.6	2235.1	1752.6	1311.9	101.3
32°	4446.8	4370.9	4193.3	3904.3	3516.1	3063.0	2578.4	2074.9	1611.3	1207.6	92.8
33°	4179.3	4102.9	3912.3	3641.3	3286.5	2843.4	2355.4	1902.8	1450.7	1083.4	85.8
34°	3844.5	3774.6	3610.4	3337.4	2997.1	2565.5	2098.9	1664.7	1284.0	960.1	78.3
35°	3461.2	3349.9	3201.2	2985.1	2653.3	2219.1	1821.9	1443.2	1112.3	830.9	70.4
36°	2942.7	2962.7	2805.0	2540.5	2265.6	1925.2	1544.0	1203.1	930.2	708.1	63.4
37°	2483.1	2451.7	2351.4	2146.8	1907.3	1569.4	1294.0	1020.0	782.5	598.8	55.9
38°	2003.1	2010.1	1911.7	1754.6	1517.0	1290.5	1041.5	837.9	654.7	509.5	48.9
39°	1567.9	1562.4	1536.0	1390.3	1175.2	1026.5	843.8	694.6	545.4	429.7	41.4
40°	1181.2	1190.2	1128.3	1040.5	915.2	792.9	672.2	553.9	451.1	362.3	32.4
42.5°	574.4	588.3	547.4	525.0	469.6	421.7	355.8	290.4	247.0	213.6	14.5
45°	280.0	272.0	268.5	257.5	244.5	218.6	193.6	166.2	145.2	125.3	9.0
47.5°	143.2	139.2	139.2	134.7	130.2	121.8	109.3	100.3	90.3	77.8	3.5
50°	42.9	42.4	41.9	42.4	40.9	42.4	43.4	43.9	39.9	39.4	1.0
52.5°	17.0	17.5	17.0	18.5	18.5	18.0	18.5	18.0	17.5	15.5	0.0
55°	5.0	5.0	5.0	5.0	5.0	5.0	5.5	6.0	5.5	6.0	0.0
57.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.5
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	17.0	17.0	17.0	17.0	17.0	17.0
2.5°	20.0	17.5	14.5	12.0	11.0	10.5
5°	21.5	16.0	11.0	8.5	7.5	7.0
7.5°	23.0	14.5	8.5	6.0	4.5	4.0
10°	24.0	12.5	6.5	3.5	2.5	2.5
12.5°	24.0	10.0	4.5	2.0	1.5	1.5
15°	23.5	8.5	3.0	1.5	1.0	1.0
17.5°	23.0	6.5	2.0	1.0	0.5	1.0
20°	21.5	5.0	1.0	0.5	0.5	0.5
21°	21.0	4.5	1.0	0.5	0.5	0.5
22°	20.0	4.0	0.5	0.0	0.5	0.5
23°	19.0	3.0	0.5	0.0	0.0	0.0
24°	17.5	2.5	0.5	0.0	0.0	0.0
25°	16.5	2.5	0.5	0.0	0.0	0.0
26°	15.5	1.5	0.0	0.0	0.0	0.0
27°	14.0	1.0	0.0	0.0	0.0	0.0
28°	13.0	1.0	0.0	0.0	0.0	0.0
29°	11.5	1.0	0.0	0.0	0.0	0.0
30°	10.0	1.0	0.0	0.0	0.0	0.0
31°	8.0	0.5	0.0	0.0	0.0	0.0
32°	6.5	0.5	0.0	0.0	0.0	0.0
33°	4.5	0.5	0.0	0.0	0.0	0.0
34°	3.0	0.5	0.0	0.0	0.0	0.0
35°	2.5	0.5	0.0	0.0	0.0	0.0
36°	1.5	0.5	0.0	0.0	0.0	0.5
37°	1.5	0.5	0.0	0.0	0.0	0.5
38°	1.0	0.5	0.0	0.0	0.0	0.5
39°	0.5	0.5	0.0	0.0	0.0	0.5
40°	0.5	0.5	0.0	0.0	0.0	0.5
42.5°	0.0	0.5	0.0	0.0	0.5	1.0
45°	0.0	0.5	0.0	0.0	0.5	1.0
47.5°	0.0	0.5	0.0	0.0	1.0	1.0
50°	0.0	0.5	0.5	0.5	1.0	1.5
52.5°	0.0	1.0	0.5	1.0	1.5	2.0
55°	0.5	1.0	1.0	1.5	2.0	2.5
57.5°	0.5	1.5	1.5	2.0	2.5	2.5
60°	1.0	1.5	2.0	2.0	3.0	3.0
62.5°	1.0	2.0	2.0	2.0	3.0	3.0
65°	1.0	2.0	2.0	2.5	3.0	3.0
67.5°	1.0	2.0	2.0	2.0	2.5	3.0
70°	1.0	2.0	1.5	2.0	2.5	2.5
72.5°	1.0	2.0	1.5	1.5	2.0	2.5
75°	1.0	2.0	1.5	1.5	2.0	2.0
77.5°	1.0	1.5	1.5	1.0	1.5	1.5
80°	1.0	1.5	1.0	1.0	1.5	1.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.0	1.5	1.0	0.5	1.0	1.0
85°	1.0	1.5	1.0	0.5	0.5	0.5
87.5°	1.0	1.5	0.5	0.0	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)